CONTRUCTED DOCUMENTS

1.

ROCKY FLATS PLANT EMD OPERATING PROCEDURES MANUAL Manual No.: Procedure No.:

Page: Effective Date: 5-21000-OPS-SW Table of Contents, Rev 9

1 of 2 01/18/93

Organization:

Environmental Management

THIS IS ONE VOLUME OF A SIX VOLUME SET WHICH INCLUDES:

VOLUME I: FIELD OPERATIONS (FO)
VOLUME II: GROUNDWATER (GW)
VOLUME III: GEOTECHNICAL (GT)
VOLUME IV: SURFACE WATER (SW)
VOLUME V: ECOLOGY (EE)
VOLUME VI: AIR (AP)

TABLE OF CONTENTS FOR VOLUME IV: SURFACE WATER

| Procedure No. | Title | Rev. No. | Effective <u>Date</u> |
|------------------------|---|-------------|--------------------------|
| SW.01 | Surface Water Data Collection Activities | 2 | 05/12/92 |
| DCN 92.01 | Assure Quality Control | 2 | 07/21/92 |
| SW.02 | Field Measurement of Surface Water Field Parameters | 2 | 05/12/92 |
| DCN 92.01 DCN 92.02 | Allow Change In Instrumentation Reduction In Chlorine Testing Requirements | 2 | 07/21/92 07/21/92 |
| SW.03 | Surface Water Sampling | 2 | 05/12/92 |
| SW.04 | Discharge Measurement | 2 | 05/12/92 |
| SW.05 | Base Laboratory Work | | To Be Added |
| SW.06 | Sediment Sampling | 2 | 05/12/92 |
| DCN 92.01 DCN 92.02 | Reduction In Personal Protectional Level Due to Local Knowledge Clarification of Sampling | 2 | 07/21/92 09/29/92 |
| SW.07 | Collection of Tap Water Samples | 2 | 05/12/92 |

ROCKY FLATS PLANT EMD OPERATING PROCEDURES MANUAL Manual No.: Procedure No.: Page: 5-21000-OPS-SW Table of Contents, Rev 9 2 of 2

Effective Date: Organization:

01/18/93 Environmental Management

| Proc. No. | Title | Rev. <u>No.</u> | Effective <u>Date</u> |
|--------------|--|--------------------|--------------------------|
| SW.08 | Pond Sampling | 2 | 05/12/92 |
| DCN 92.01 | Clarification of Sampling | 2 | 10/05/92 |
| SW.09 | Industrial Effluent and Pond Discharge Sampling | 2 | 05/12/92 |
| SW.10 | Event-Related Surface Water Sampling | 1 | 02/20/92 |
| *DCN 93.01 | Table Replacement-Attachment 1 | 1 | 01/15/93 |
| SW.11 | Operation and Maintenance of Stream-Gaging and Sampling Stations | 1 | 02/20/92 |
| SW.12 | Site Description | 2 | 05/12/92 |
| DCN 92.01 | Reduction in Unrequired Quality Check | 2 | 07/21/92 |
| SW.13 | Bacteriological Water Sampling | 2 | 05/12/92 |
| SW.14 | Automatic Sampling | | To Be Added |
| SW.15 | River and Ditch Sampling | 2 | 05/12/92 |
| SW.16 | Sampling of Incidental Waters | 2 | 05/12/92 |
| SW.17 | Pond and Reservoir Bottom Sediment Sampling | 0 | 09/25/92 |
| *DCN 93.01 | Decontamination | 0 | 01/15/93 |
| SW.28 | Field Locating Effluent Pathways and Drains | 0 | 09/25/92 |
| SW.29 | Dye Testing Building Drains | 0 | 09/29/92 |
| SW.30 | Field Locating Chemicals of Concern | 0 | 09/25/92 |
| SW.33 | Dye Testing Foundation Footing Drains | 0 | 09/29/92 |

ENVIRONMENTAL MANAGEMENT DOCUMENT CHANGE NOTICE (DCN)

Procedure Number 5 124000+0PS SW. 10 Rev. 1

Page 1 of 12 pp

| ppe Lim | itation: | No | |
|-------------|----------|----------------------|--|
| em umber | Page | Step or Paragraph | Changes (Use DCN CONTINUATION SHEET for additional space) |
| | 10 | Attachment 1 | Replace the table in Attachment I with the table attached to this DCN. |

| | | | | PEF | R.B. HOFFMAN, C JUNE 1 | LASSIFICA 1, 1991 | ITION OFFICE |
|--------------------|---------------|---------------|----------|----------------------|---------------------------|----------------------|--------------|
| Concurrence/ | Organization | Req. | Date | Concurrence | Organization | Req. | Date |
| Mormies | QAPM | х | 1/12/93 | And all | User | X | 12/16/92 |
| onlikel | A PM/SUD | | 12/14/42 | HI WW | | | |
| M. Toousan | REOM | X | 12/2/92 | -EOM OH | | | |
| | | | / / | DonneSirks | EQM | X | 1/5/99 |
| Approval of Respon | sible manager | Date 17 De | c 92 | Is Posting required? | If Yes, by what d | | Date posted |

| | | | rface-Water Monitori | | |
|-----------------------------|--|--------------|--|----------------|----------------|
| | Volume of | Volume | | | |
| | Individual | Required | T | | |
| | Samples | for | | | - |
| | from Auto- | Analytical | | | Analytic |
| Class of Analytes | sampler | Methods | Preservative | Container | Methods |
| Total | | | | | |
| Target Analγte | | | Nitric Acid to | - | CLP-Me |
| List (TAL) Metals | 1 Liter | 100 ml | pH<2 | Polyethylene | SW846 |
| LIST (TAL) IVIETEIS | 1 Liter | 100 mi | pn < 2 | Polyethylene | 13446 |
| Total | | | Nitric Acid to | | |
| Non-TAL Metals | 1 Liter | 100 ml | pH<2 | Polyethylene | CLP & S |
| | | | | | ICPAES |
| | | | | | GFAA |
| Total | | | Nitrio Apid to | | |
| Radionuclides | 4 Liters | 4 Liters | Nitric Acid to | Polyethylene | CPRAC |
| -Pu, U, Am | - LILBIS | 7 11618 | pi1 \ Z | i orkernkieue | GRRAS |
| -Gross Alpha | | | | | - |
| -Gross Beta | | | | | |
| -Tritium (only at | | | | | |
| GS11, GS12, and | | | | | |
| GS13) | | | | | |
| | | | | | - |
| Water-Quality | | | | | |
| Parameters | | | <u> </u> | | |
| -Anions | 1 Liter for | 1 Liter plus | Cool to 4 degrees | Polyethylene | 30 |
| -Alkalinity | all con- | 250 ml | • | Polyethylene | 31 |
| -Conductivity | stituents | | ** | Polyethylene | 12 |
| -TSS,TDS | plus 250 ml | | * | Polyethylene | 160.1 |
| Nitrate/Nitrite - N | for Total P. | ļ | • | Polyethylene | 35 |
| -Total P | | | • | Polyethylene | 3 |
| BOD | 2 Liters | 2 liters | Cool to 4 degrees | Poly or Glass | SW846 |
| | | | | | |
| VOAs | 350 ml | 3x40ml | Cool to 4 degrees | Glass VOA Vial | c |
| (Manually | L | | HCI to pH < 2 | | 50 |
| Collected) | | | | | |
| TCL Semi-VOAs | 350 ml | 2x1 L | Cool to 4 degrees | Amber Glass | 6 |
| (Manually | | | | | |
| Collected) | | | | | |
| Particidas (DOD | 250 | 250 | 0-14-4 | 101 | |
| Pesticides/PCB (Manually | 350 ml | 350 ml | Cool to 4 degrees | Amber Glass | 5 |
| | , | 1 | ł . | 1 | J |